

Supplement S1. Presence table for all species growing on the different treatment plots of the two restoration sites ($n = 4$; the number of plots with the species is given) in the years 2010 to 2013. Target species are highlighted in grey; red list species (Germany; KORNECK et al. 1996) are highlighted in bold. Additionally, the occurrence of the species on the grid plots, in seed bank and seed rain of the two sites and in the inoculation material is given. Records of species in endozoochorous samples are added.

Beilage S1. Stetigkeitstabelle aller Arten, die auf den verschiedenen Behandlungen ($n = 4$; die Anzahl der Plots mit der Art ist angegeben) der beiden Restitutionsflächen in den Jahren 2010 bis 2013 erfasst wurden. Zielarten sind grau hervorgehoben, Rote Liste Arten (Deutschland; KORNECK et al. 1996) sind in Fettdruck. Zusätzlich ist das Vorkommen der Arten auf den Rasterpunkten, in der Diasporenbank und im Diasporenniederschlag der beiden Flächen und im Inokulationsmaterial angegeben. Nachweise der Arten in Dungproben sind angefügt.

	Site 1								Site 2								grid plots S1	grid plots S2	seed bank S1	seed bank S2	seed rain S1	seed rain S2	inoc. material	endozoochory						
	2010		2011		2012		2013		2010		2011		2012		2013															
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+														
inoculated	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+														
grazed	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	x	x	x	x	x	x	x	x						
<i>Erodium cicutarium</i>	3	1	3	1	4	2	4	2	3	3	2	2	3	3	2	1	1	2	3	2	x	x								
<i>Corynephorus canescens</i>	2	1	2	2	2	1	4	3	2	2	4	2	2	2	4	2	1	4	2	x	x	x	x	x						
<i>Tortula ruraliformis</i>		4	4	2	2	4	4	3	2	4	4	3	3	4	4	2	1	4	4	x	x									
<i>Rumex acetosella</i> s.l.		2			3	2	1	1	3	2	1	2	3	3	2	2	4	4	3	4	4	4	x	x						
<i>Arenaria serpyllifolia</i> agg.	2	1			4	4			1	4	4		2	4	3	1	3	4	4	2	4	4	x	x						
<i>Cerastium semidecandrum</i>					4	3			2	2	1	1	1	3	1	2	1	2	4	4	3	4	4	x	x					
<i>Echium vulgare</i>	3	4			4	4			3	3		1	2	3	3	4	4	4	1	2	1	1	x	x						
<i>Medicago minima</i>					4	4			4	4		1	2	1	3	1	4	4	2	2	4	4	x	x						
<i>Medicago lupulina</i>									1													x	x							
<i>Trifolium arvense</i>																						x	x							
<i>Vicia angustifolia</i>																						x	x							
<i>Trifolium campestre</i>									1													x	x							
<i>Erophila verna</i>	4	1																				x	x							
<i>Vicia lathyroides</i>																						x	x							
<i>Myosotis ramosissima</i>																						x	x							
<i>Valerianella locusta</i>																						x	x							
<i>Sanguisorba minor</i>			3	1		3	1																							
<i>Euphorbia cyparissias</i>						1																x								
<i>Veronica verna</i>	1	1																				x								
<i>Cetraria aculeata</i>	2	1			1	1	1	1													2									
<i>Potentilla argentea</i> agg.																					x	x								
<i>Saxifraga tridactylites</i>	3	3			1				1												x	x								
<i>Holosteum umbellatum</i>			3	4					2	1											x	x								
<i>Vulpia myuros</i>	1	3			1	3			1	3											x	x								
<i>Phleum arenarium</i>	4	4			4	4	4	4	1	4	4										x	x								
<i>Koeleria glauca</i>	4	4			4	4			4	4											x	x								
<i>Centaurea stoebe</i> s.l.	4	4			4	4			4	3	1	4	4	2	4	4	2	4	4	2	x	x								
<i>Petrorhagia prolifera</i>	1	1	1	4	3		3	2		2	2		2	1	1	4	3	1	3	3	x	x								
<i>Silene conica</i>	1	2			4	4			4	4											x	x								
<i>Artemisia campestris</i>	2	2			2	3			3	3		4	3								x									
<i>Helichrysum arenarium</i>	2	2			2	2			3	2		2	4								x									
<i>Koeleria macrantha</i>	1	3			3	3			1	3		1	1								x									
<i>Sedum acre</i>	3	2			1	2			2	2		2	1								x									
<i>Ononis repens</i> s.l.	1			1	3			4	3		4	2									x									
<i>Peltigera rufescens</i>	1	2		1	2		4		2	1											x									
<i>Phleum phleoides</i>			1			4	1		4	2											x									
<i>Hieracium pilosella</i>			1			3	2		3	2											x	x								
<i>Herniaria glabra</i>																														
<i>Thymus serpyllum</i>																														
<i>Mibora minima</i>			1																											
<i>Veronica praecox</i>																					x									
<i>Cladonia cf. rangiformis</i>																														
<i>Helianthemum nummularium</i>																														
<i>Conyza canadensis</i>	4	3	3	3	4	4	4	4	4	4	4	2	4	3	4	4	4	4	4	4	x	x	x	x						
<i>Elymus repens</i>	2	2	1	1	2	2	2	3	2	2	2	3	1	2	2	3	3	3	4	3	4	x	x							
<i>Oenothera biennis</i> agg.	4	4	3	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	x	x	x	x						
<i>Setaria viridis</i>	4	4	4	4	4	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	x	x								
<i>Diplotaxis tenuifolia</i>	2	3	4	3	2	3	4	2	1	2	2	1	2	2	4	4	4	4	2	3	x	x								
<i>Bromus tectorum</i>	2	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	x	x								
<i>Chenopodium album</i> agg.	2	3	2	2	3	4	2	3	4	1	4	2	1	4</td																

	Site 1								Site 2								grid plots S1	grid plots S2	seed bank S1	seed bank S2	seed rain S1	seed rain S2	inoc. material							
	2010		2011		2012		2013		2010		2011		2012		2013															
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+														
inoculated	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+														
grazed	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	grid plots S1	grid plots S2	seed bank S1	seed bank S2	seed rain S1	seed rain S2	endozoochory							
<i>Chenopodium strictum</i>	4	4	4	4					4	4	4	4	1				x	x	x											
<i>Bromus hordeaceus</i>	1		1		1	2		1		1				1		1	1	x	x											
<i>Senecio vulgaris</i>			1	2	2	2			1		2	1	2	1			x	x		x										
<i>Calamagrostis epigejos</i>			1		1		1			1	1	1	1	1	1	1	x													
<i>Ballota nigra</i>									1	1	1	1		1	1	1	x													
<i>Cirsium vulgare</i>		1		1	1	1				1				2	2	3	x	x		x										
<i>Digitaria ischaemum</i>																	x	x												
<i>Chaenorhinum minus</i>									1	3							x													
<i>Cardamine hirsuta</i>											1	1					x	x		x										
<i>Sonchus asper</i>											1						x	x		x	x									
<i>Tragopogon dubius</i>						1										1														
<i>Echinochloa crus-galli</i>						1											x	x												
<i>Lamium amplexicaule</i>														1	1	1	x													
<i>Sonchus oleraceus</i>	1		1						2	3	3						x	x	x	x	x	x								
<i>Veronica hederifolia</i>									2	2	3	2	3	2	1		x	x												
<i>Sisymbrium officinale</i>	1								2	1	1						x													
<i>Persicaria maculosa</i>									4	4	3	4					x													
<i>Atriplex sagittata</i>									4	4	3	3	3	1	2		x	x		x										
<i>Anagallis arvensis</i>									2	2	3	2					1	1		x										
<i>Stellaria media</i>													3	3	1	2				1	1	x		x						
<i>Tripleurospermum perforatum</i>	1								2	3	2	2					x													
<i>Senecio cf. vernalis</i>										1	1	1	1	1			x		x											
<i>Bromus sterilis</i>						1	1		1	1	1					1	1	3	1	x	x									
<i>Amaranthus retroflexus</i>	1	2	2						3	1	2	3					x	x	x					x						
<i>Tussilago farfara</i>			1	1	1					2			2	2	1		x	x	x	x										
<i>Solanum nigrum</i>	3	1	1	2					4	4	4	3	1	2			x	x	x	x	x									
<i>Robinia pseudoacacia</i> seedl.								1					1																	
<i>Malva alcea</i>																1		1		x										
<i>Epilobium brachycarpum</i>											1						x	x												
<i>Panicum miliaceum</i>											1						x	x												
<i>Veronica cf. agrestis</i>															1															
<i>Saponaria officinalis</i>						1					1						x													
<i>Capsella bursa-pastoris</i>												1			2	1	x	x	x											
<i>Carduus crispus</i>									1				1				x													
<i>Datura stramonium</i>									2	1							x													
<i>Reseda luteola</i>													1	1																
<i>Papaver argemone</i>													1		1			x												
<i>Descurainia sophia</i>													1																	
<i>Epilobium parviflorum</i>							1																							
<i>Galium aparine</i>														2																
<i>Sonchus arvensis</i>	1																													
<i>Urtica dioica</i>																		1	x	x	x									
<i>Ambrosia artemisiifolia</i>									1		1		1		1		x													
<i>Alliaria petiolata</i>											1						x													
<i>Solanum physalifolium</i>									2								x	x	x	x	x	x	x							
<i>Bryum argenteum</i>	1	2		4	3	4	2	4	4	4	2	4	4	4	2	1	1	4	4	4	4	4	4	x						
<i>Hypochaeris radicata</i>			1	3	4	3	1	2	4	3	1	2	3	3	1	1	2	3	2	2	2	4	x	x						
<i>Prunus serotina</i> juv.	1	1	2		1	1	2		1		1	1	2	1	2	1	2	2	2	2										
<i>Holcus lanatus</i>			2	2	3	3	1	1	1	2	1	2	2		1	2	1	1	1	1	2	x	x	x						
<i>Pinus sylvestris</i> juv.	3	4	3	4	2	2	2	3	2	3	3	3	4	2	2	1	2	3	3	2	x	x								
<i>Verbascum phlomoides</i>	2	3		3	3		2	3		1	2	1	2	4	4	1	1	4	4	1	2	4	x	x						
<i>Hypericum perforatum</i>							1		1	1	3	2	1	1	3	2	1	1	2	2	1	x	x	x						
<i>Plantago lanceolata</i>									2	3	3	2	2	3	3	4	2	3	1	4	3	3	x							
<i>Agrostis capillaris</i>							1	1	1	1	1	2			1	2														